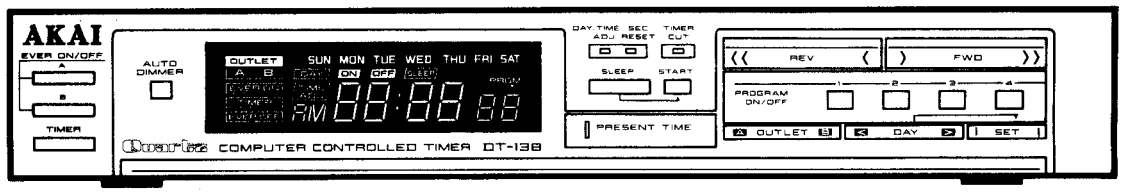
AKAI SERVICE MANUAL



COMPUTER CONTROLLED TIMER

MODEL DT-138

I. SPECIFICATIONS

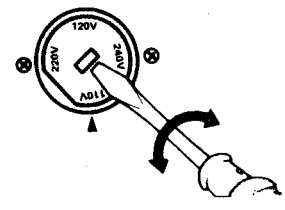
TIMER ACCURACY	±15 seconds within one month (approx. 20°C)
TIMER BASE	Quartz oscillator
TIMER OPERATION ACCURACY	Less than 0.2 seconds
TIMER DISPLAY	12 hour display, FL display
TIMER SYSTEM	Weekly, 4 programs
TIMER SET PERIOD	1 minute to 23 hours and 59 minutes
SLEEP TIME PERIOD	1 minute to 1 hour and 59 minutes
AC OUTLETS	SWITCHED x 4 Total 1200W maximum (Japan model) SWITCHED x 4 Total 600W maximum (U/T model)
POWER REQUIREMENTS	100V, 50Hz/60Hz (Japan model) 110V/120V/220V/240V, 50Hz/60Hz (U/T model)
POWER CONSUMPTION	6W (U/T, Japan Models)
DIMENSIONS	310 (W) x 45 (H) x 120 (D) mm (12.2 x 2.8 x 4.7 inches)
WEIGHT	2.0kg (4.4 lbs)

* For improvement purposes, design and specifications are subject to change without notice.

II. VOLTAGE CONVERSION

Japan Model is not equipped with this facility. Japan Model is preset to 100V at the factory, but U/T Model can be set to 110V, 120V, 220V or 240V as required.
If your machine's voltage can be converted:

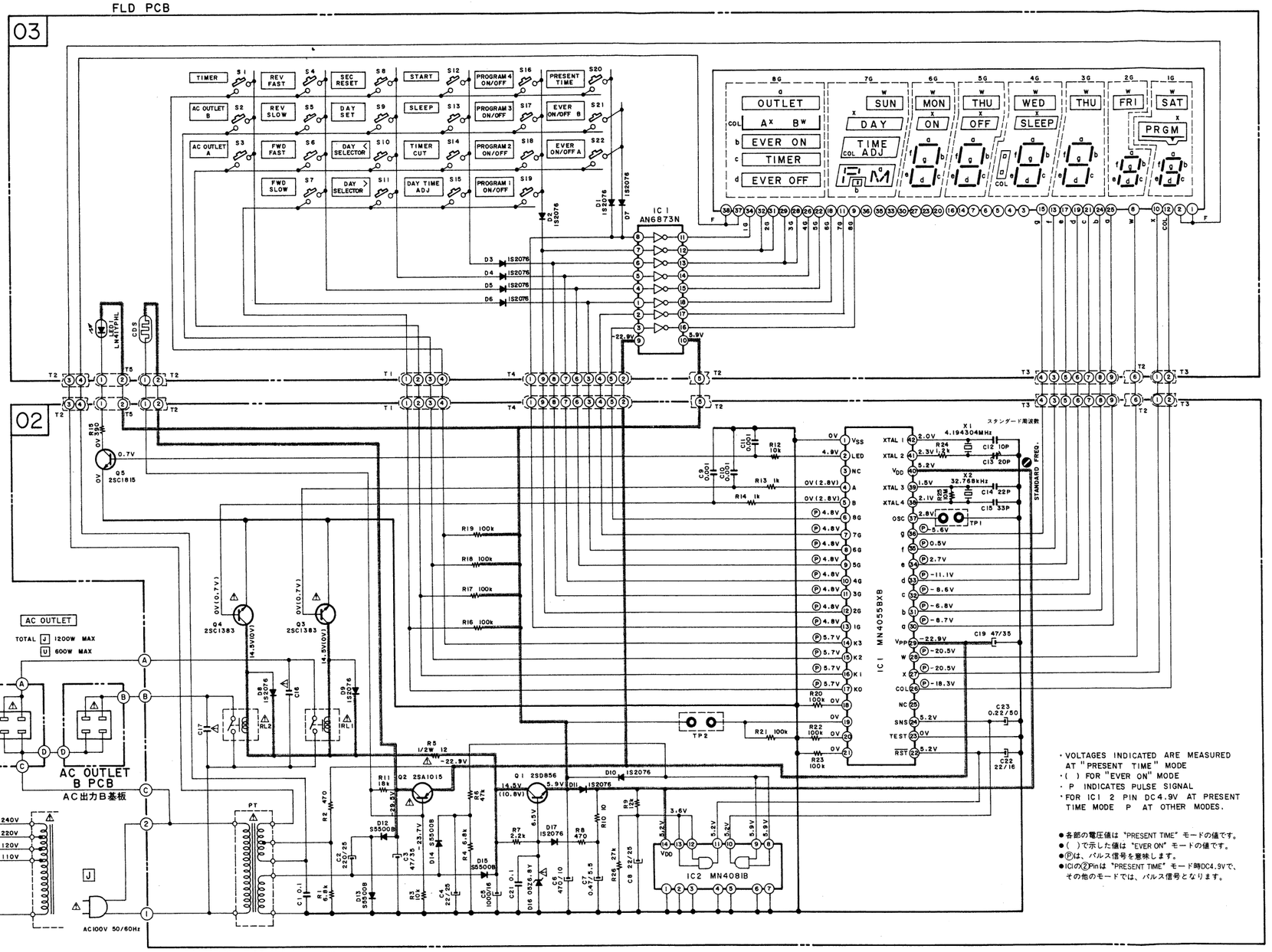
1) Disconnect the power cord.
2) Turn the VOLTAGE SELECTOR located on the rear panel with a screwdriver until the correct voltage is indicated.



III. SCHEMATIC DIAGRAM

DT-138

FLD PCB



2SA1015
2SC1383
2SC1815

2SD856

- VOLTAGES INDICATED ARE MEASURED AT "PRESENT TIME" MODE
- ( ) FOR "EVER ON" MODE
- P INDICATES PULSE SIGNAL
- FOR IC1 2 PIN DC4.9V AT PRESENT TIME MODE P AT OTHER MODES.

- 各部の電圧値は "PRESENT TIME" モードの値です。
- ( )で示した値は "EVER ON" モードの値です。
- Ⓟは、パルス信号を意味します。
- IC1の②Pinは "PRESENT TIME" モード時DC4.9Vで、その他のモードでは、パルス信号となります。

B(POWER SUPPLY) LINE
B電源

注意 △の付された部品は、安全上重要部品です。交換の際は、指定部品以外は使用しないこと。

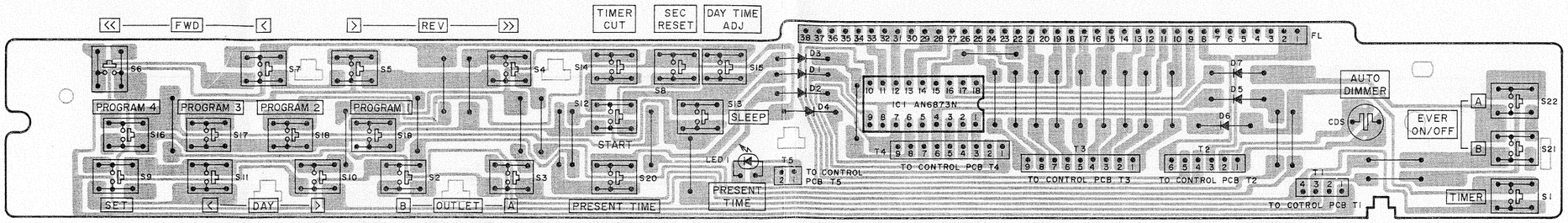
WARNING: △INDICATES SAFETY CRITICAL COMPONENTS.
FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: △ IL FAUDRA LES COMPOSANTS CRITIQUES DE SURETE POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
POWER TRANSFORMER IS DIFFERENT ACCORDING TO AREA

備考
C.Rの単位(特に指定された部品以外)
抵抗……Ω 1/4W(J),(FS)記号は不燃性部品
コンデンサ……μF 50WV(J)
各電圧は、GND間のDC電圧をデジタルボルトメーターにて測定した値です。

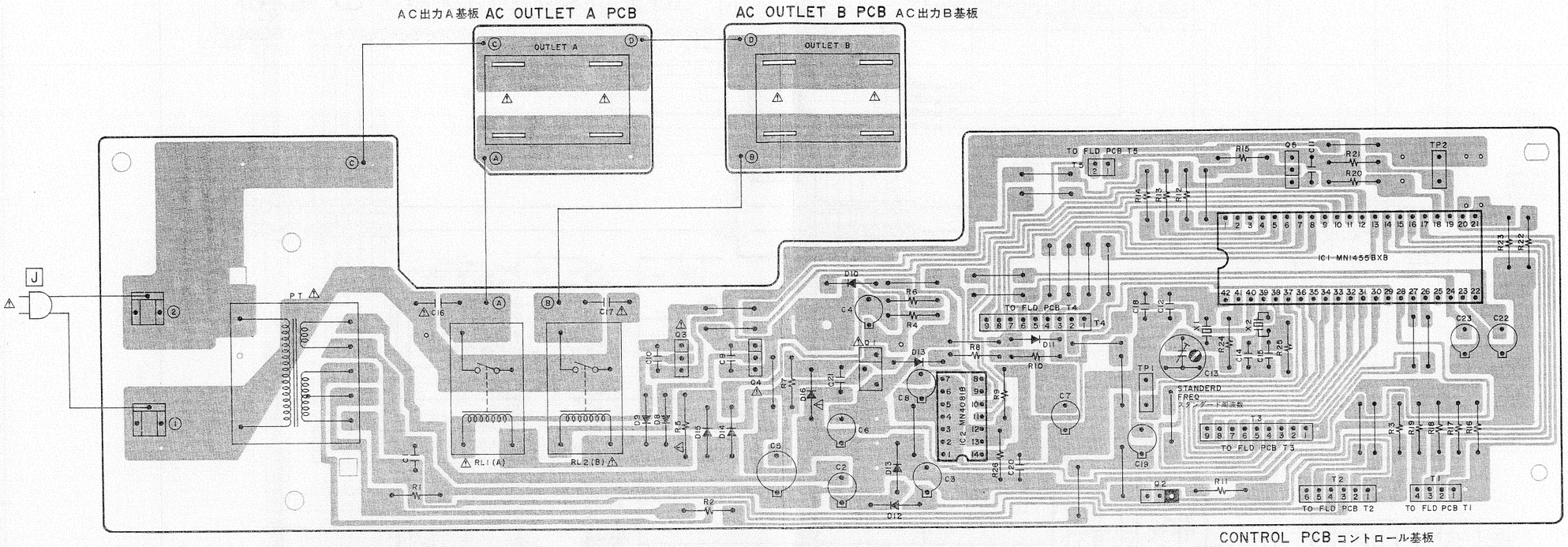
DT-138
SCHEMATIC DIAGRAM
NO 851006A3



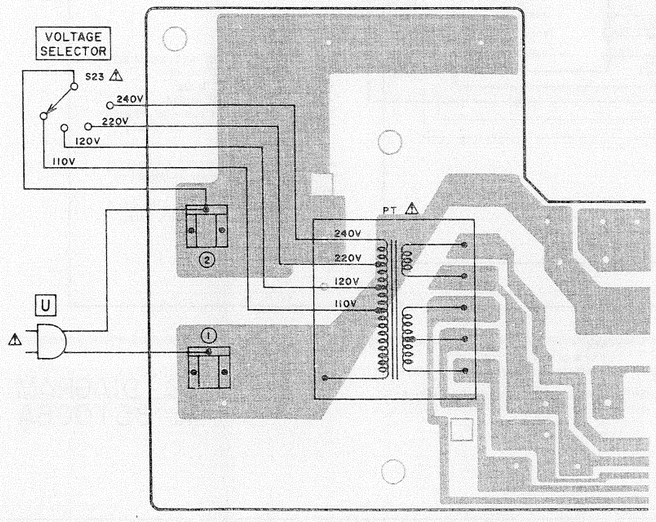
FLD PCB

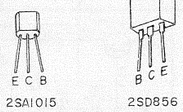
AC出力A基板 AC OUTLET A PCB

AC OUTLET B PCB AC出力B基板

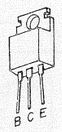


CONTROL PCB コントロール基板





2SA1015
2SC1383
2SA1815



2SD856

Q1------2SD856
Q2------2SA1015
Q3,4----2SC1383
Q5------2SC1815

= NPN TRANSISTOR

= PNP TRANSISTOR

注意: ⚠の付された部品は、安全上重要部品です。交換の際は、指定部品以外は使用しないこと。

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AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

VIII. CONTROLS

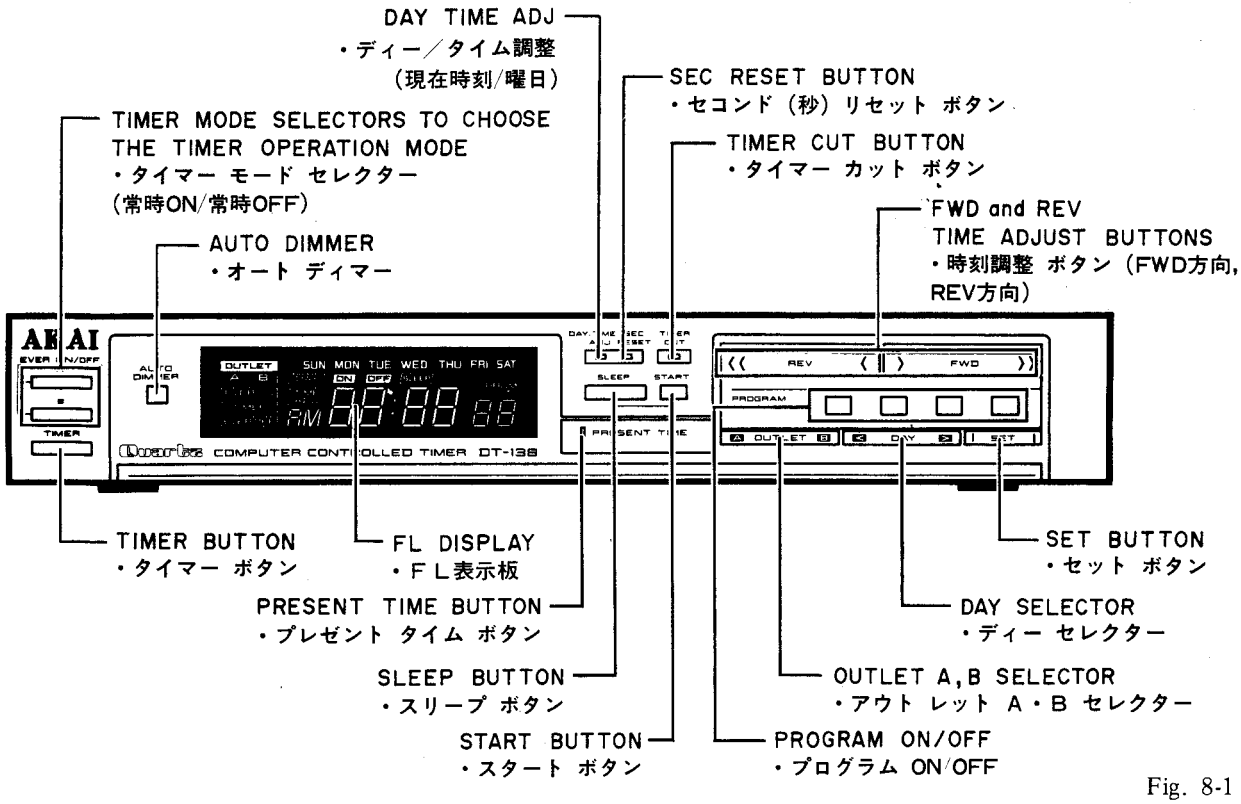

Fig. 8-1

IX. ADJUSTMENT

9-1. STANDARD FREQUENCY OSCILLATOR ADJUSTMENT

1) Connect a Frequency Counter between TP1 and GND.
2) Adjust the Trimmer Capacitor (C_{13}), so that the Frequency Counter Reading is 128.00016Hz (7.81249ms).

9-1. 基準発振器の調整

1) 周波数カウントをTP1とGND間に接続します。
2) トリマーコンデンサーC13で、周波数カウンターの指示が128.00016Hz(7.81249ms)になるように調整します。

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